

TABLE 4 - ALTERNATIVE 2 PRELIMINARY COST PROJECTION

Component No.	Component Description	Key Assumptions	Quantity	Unit	Unit Cost	Estimated Cost	
						One-time	Annual O&M
1	Institutional Controls Deed Recordation/Restrictive Covenant	Includes modificaton of current restrictive covenants.	1	LS		\$10,000	-
	Institutional Controls Subtotal					\$10,000	\$0
2	Operation and Maintenance Planning O&M Plan Preparation	Includes preparation of plan for cap inspection/repair and groundwater monitoring.	1	LS		\$10,000	-
	Operation and Maintenance Planning Subtotal					\$10,000	\$0
3	Groundwater Monitoring Groundwater Monitoring	Assumes annual sampling of 9 Zone A wells, 5 Zone B wells, 1 Zone C well with analyses for VOCs.	1	LS			\$12,000
	Well Repair/Replacement	Assumes repair of well head/protective casing required at 2 wells per year.	2	wells	\$500		\$1,000
	Plugging/abandonment of monitoring wells no longer in use.	Assumes plugging of 20 Zone A wells (wells in South Area and MW05).	1	LS		\$10,000	-
	Groundwater Monitoring Subtotal					\$10,000	\$13,000
	Subtotal					\$30,000	\$13,000
	Contingency	Assumed at 20% (10% scope + 10% bid) per EPA, 2000.				\$6,000	\$2,600
	Subtotal with Contingency					\$36,000	\$15,600
	Present Worth of Annual Costs	Assume 30 years at 7% discount factor.				\$193,600	
	Total Preliminary Estimated Present Worth Cost	Includes present worth of annual costs.				\$230,000	
	Total Preliminary Estimated Undiscounted Cost	Assumes no discount for annual costs (30 years).				\$500,000	

Notes:

¹LS = Lump Sum Estimate